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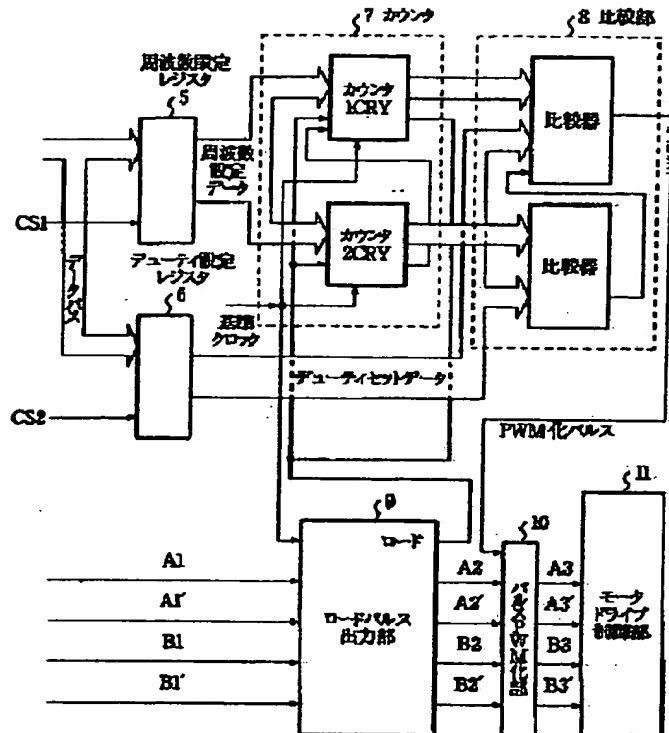
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TITLE : VARIABLE CURRENT TYPE MOTOR
DRIVING CONTROL CIRCUIT



ABSTRACT : PROBLEM TO BE SOLVED: To avoid the vibration and heating of a stepping motor and reduce the power consumption by a method wherein motor control signals generated by a conventional stepping motor control circuit are subjected to PWM by a PWM control unit.

SOLUTION: A PWM control unit which is composed of a frequency setting register 5 which converts signals for the current application into signals with a constant frequency and a duty setting register 6 which sets the duty ratio of signals outputted from the frequency setting register 5 is provided. Motor driving signals from a comparator 8 are PWM-coded by the pulse PWM, coding part 10 of the PWM control unit. With this constitution, an optimum current is supplied to a motor through a motor driving part 11 to avoid the noise, heating and excessive power consumption of the motor.

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